| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|-----------|------------------|
| 305 | 5950 | (LDD or "lightly doped") same contact | USPAT; | 2004/08/09 00:17 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 306 | 5737 | ((LDD or "lightly doped") same contact) and (dopant or | USPĀT; | 2004/08/09 00:18 |
| | | doped) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 307 | 3623 | ((LDD or "lightly doped") same contact) and ((dopant or | USPAT; | 2004/08/09 00:19 |
|] | 3023 | doped) same (conductive or metal)) | US-PGPUB; | 2004/00/07 00.17 |
| Ì | | doped) same (conductive of metaly) | EPO; | |
| | | | DERWENT; | |
| | | | 1 | |
| 200 | 017 | (//1707) - 811: 1 . 1 . 1 . 1 . 1 | IBM_TDB | 0004/00/00 00 50 |
| 308 | 817 | (((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:50 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4 | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 309 | 759 | ((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:39 |
| ĺ | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and (P or phosphorus and As or arsenic or Sb or | EPO; | |
| | | antimony) | DERWENT; | |
| | | | IBM_TDB | |
| 310 | 684 | ((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:40 |
| 1 | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and (B or boron or borane B2H10 or BF2) | EPO; | |
| į | | | DERWENT; | |
| i | | | IBM TDB | |
| 311 | 98 | (((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:44 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and (P or phosphorus and As or arsenic or Sb or | EPO; | |
| | | antimony)) not (((((LDD or "lightly doped") same | DERWENT; | |
| ŀ | | contact) and ((dopant or doped) same (conductive or | IBM_TDB | |
| | | metal))) and dry adj etch\$4) and (B or boron or borane | 10.41_100 | |
| | | B2H10 or BF2)) | | |
| 312 | 3 | (multi\$layer or multilayered) adj doped adj conductor | USPAT; | 2004/08/09 00:48 |
| 312 | 3 | (maidiplayer of maidiayered) adj doped adj conductor | US-PGPUB; | 2004/06/09 00.46 |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |
| 313 | O | 6670682.URPN. | _ | 2004/00/00 00 45 |
| i. | _ | | USPAT | 2004/08/09 00:45 |
| 314 | 7 | ("5981332" "6066894" "6130145" "6177697" | USPAT | 2004/08/09 00:45 |
| 215 | | "6323525" "6392303" "6410951").PN. | | 0004/00/00 |
| 315 | 3 | (multi\$layer or multi\$layered) adj doped adj conductor | USPAT; | 2004/08/09 00:55 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 316 | 2 | (multi\$layer or multi\$layered) adj doped adj conductive | USPAT; | 2004/08/09 00:49 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| ļ | | | IBM_TDB | |

| 317 | 0 | ((multi\$layer or multi\$layered) adj doped adj | USPAT; | 2004/08/09 00:49 |
|-----|-------------|--|-----------|------------------|
| | | conductive) not ((multi\$layer or multi\$layered) adj | US-PGPUB; | |
| | | doped adj conductor) | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 318 | 142 | ((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:51 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and "second conductive" | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |
| 319 | 0 | (((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:52 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and "second conductive") and (diffusive or | EPO; | |
| | | diffusivity) | DERWENT; | |
| | | directivity | IBM TDB | |
| 321 | 0 | ((((IDD or "lightly doned") same contact) and ((deposit | | 2004/00/00 00.52 |
| 321 | 0 | (((((LDD or "lightly doped") same contact)) and ((dopant | USPAT; | 2004/08/09 00:53 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and "second conductive") and shallow | EPO; | |
| | | | DERWENT; | |
| | _ ! | | IBM_TDB | |
| 322 | 5 | (((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 00:54 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and "second conductive") and (graded or | EPO; | |
| | | graduated) | DERWENT; | |
| | | | IBM_TDB | |
| 324 | 3 | ((((((LDD or "lightly doped") same contact) and | USPAT; | 2004/08/09 00:54 |
| | | ((dopant or doped) same (conductive or metal))) and dry | US-PGPUB; | |
| | | adj etch\$4) and "second conductive") and (graded or | EPO; | |
| | | graduated)) not ((((((LDD or "lightly doped") same | DERWENT; | |
| | | contact) and ((dopant or doped) same (conductive or | IBM_TDB | |
| | | metal))) and dry adj etch\$4) and "second conductive") | _ | |
| | | and "solid state") | | |
| 325 | 0 | (2-layer or 2-layered) adj doped adj conductor | USPAT; | 2004/08/09 00:56 |
| | | a layer or 2 my erea, and no pen and continuetor | US-PGPUB; | 200 400,07 00.30 |
| | | · | EPO; | |
| | | • | DERWENT; | |
| | | | IBM TDB | |
| 326 | 0 | (2\$layer or 2\$layered) adj doped adj conductor | USPAT; | 2004/08/09 00:56 |
| 320 | " | (2 trayer or 2 trayered) and doped and conductor | US-PGPUB; | 2004/06/09 00:30 |
| | | | | |
| | | • | EPO; | |
| | | | DERWENT; | |
| 227 | | (A | IBM_TDB | 0004/00/00 00 51 |
| 327 | 2 | (two\$layer or two\$layered) adj doped adj conductor | USPAT; | 2004/08/09 00:56 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| |] | | DERWENT; | |
| | 1 | | IBM_TDB | |
| 328 | 2 | (((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 01:08 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and "second conductive") and solid\$source | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 320 | 16 | (((((LDD or "lightly doped") same contact) and ((dopant | USPĀT; | 2004/08/09 01:11 |
| | | or doped) same (conductive or metal))) and dry adj | US-PGPUB; | |
| | | etch\$4) and "second conductive") and "solid state" | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |
| | | | | L |

| | | | | · |
|-----|-----|---|-----------|------------------|
| 329 | 533 | (((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 01:11 |
| | | or doped) same (conductive or metal))) and plug | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 330 | 317 | ((((LDD or "lightly doped") same contact) and ((dopant | USPAT; | 2004/08/09 02:30 |
| | | or doped) same (conductive or metal))) and plug) and | US-PGPUB; | |
| | | ((second adj3 conduct\$5) or (second adj3 metal)) | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 331 | 0 | 20020158272.URPN. | USPAT | 2004/08/09 01:27 |
| 332 | 0 | 20020098716.URPN. | USPAT | 2004/08/09 01:29 |
| 333 | 0 | 6750091.URPN. | USPAT | 2004/08/09 01:33 |
| 334 | 39 | ("3615929" "3664896" "3777364" "3914137" | USPAT | 2004/08/09 01:33 |
| | | "3928095" "3990099" "4414737" "4530149" | | • |
| | | "4589193" "4619887" "4666556" "4742014" | | |
| | | "4922319" "5022742" "5070383" "5163178" | | |
| | | "5236851" "5268316" "5272097" "5355301" | | |
| | | "5366908" "5407851" "5441907" "5508224" | | |
| | | "5510287" "5529943" "5550075" "5567644" | | |
| | | "5589418" "5597741" "5616946" "5683939" | | |
| | | "5714768" "5739563" "5780343" "5856214" | | |
| | | "5998244" "6057195" "6420725").PN. | | |
| 335 | I | 6067680.URPN. | USPAT | 2004/08/09 02:09 |
| 336 | 2 | 6225214.URPN. | USPAT | 2004/08/09 02:09 |
| 337 | 7 | ("4829024" "5141892" "5326722" "5444302" | USPAT | 2004/08/09 02:10 |
| | | "5759905" "5976961" "6067680").PN. | | |
| 338 | 10 | ("5141892" "5192708" "5244835" "5371039" | USPAT | 2004/08/09 02:12 |
| | | "5420074" "5439838" "5491104" "5567644" | | |
| | | "5759905" "5976961").PN. | | |
| 339 | 226 | 438/607 | USPAT; | 2004/08/09 02:41 |
| | | | US-PGPUB; | |
| | | | EPO: | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 340 | 15 | 438/607 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 02:41 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 341 | 15 | (438/607 and (LDD or lightly\$doped)) not (((((LDD or | USPAT; | 2004/08/09 02:39 |
| | | "lightly doped") same contact) and ((dopant or doped) | US-PGPUB; | |
| | | same (conductive or metal))) and dry adj etch\$4) and | EPO; | |
| | - ' | "second conductive") and "solid state") not (((((LDD or | DERWENT; | |
| | | "lightly doped") same contact) and ((dopant or doped) | IBM_TDB | |
| | | same (conductive or metal))) and dry adj etch\$4) and | | |
| | | "second conductive") and solid\$source) not (((((LDD or | | |
| | | "lightly doped") same contact) and ((dopant or doped) | 1 | |
| | | same (conductive or metal))) and plug) and ((second | 1 | |
| | | adj3 conduct\$5) or (second adj3 metal))) | | |

| 342 | 15 | (438/607 and (LDD or lightly\$doped)) not (((((LDD or | USPAT; | 2004/08/09 02:41 |
|------|------|---|-----------|------------------|
| | | "lightly doped") same contact) and ((dopant or doped) | US-PGPUB; | |
| | | same (conductive or metal))) and dry adj etch\$4) and | EPO; | |
| | | "second conductive") and "solid state") not (((((LDD or | DERWENT; | |
| | | "lightly doped") same contact) and ((dopant or doped) | IBM TDB | |
| | | same (conductive or metal))) and dry adj etch\$4) and | _ | |
| | | "second conductive") and solid\$source) not (((((LDD or | | |
| | | "lightly doped") same contact) and ((dopant or doped) | | |
| | | same (conductive or metal))) and plug) and ((second | | |
| | | adj3 conduct\$5) or (second adj3 metal))) not | | |
| | | (("3615929" "3664896" "3777364" "3914137" | | |
| | | "3928095" "3990099" "4414737" "4530149" | | |
| | | "4589193" "4619887" "4666556" "4742014" | | |
| | | "4922319" "5022742" "5070383" "5163178" | | |
| | | "5236851" "5268316" "5272097" "5355301" | | |
| | | "5366908" "5407851" "5441907" "5508224" | , | |
| | | "5510287" "5529943" "5550075" "5567644" | | |
| | | "5589418" "5597741" "5616946" "5683939" | | |
| | | "5714768" "5739563" "5780343" "5856214" | | |
| | | "5998244" "6057195" "6420725").PN.) not | | |
| | | 6067680.URPN. not 6225214.URPN. not (("4829024" | | |
| | | "5141892" "5326722" "5444302" "5759905" | | |
| | | | | |
| | | "5976961" "6067680").PN.) not (("5141892" | | |
| | | "5192708" "5244835" "5371039" "5420074" | | |
| | | "5439838" "5491104" "5567644" "5759905" | | |
| 0.40 | 1004 | "5976961").PN.) | A IOD AT | 2004/20/20 20 50 |
| 343 | 1324 | 438/629 | USPAT; | 2004/08/09 02:50 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 344 | 67 | 438/629 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 02:50 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

| - | | (400/400 1/IDD 1:11 #1 11) (100/400 1 | LICDATE | 0004/00/00 00 5: |
|-----|-----|--|--|------------------|
| 346 | 37 | (438/629 and (LDD or lightly\$doped)) not (438/607 and (LDD or lightly\$doped)) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive") and "solid state") not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive") and solid state") not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive") and solid\$source) not ((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and plug) and ((second adj3 conduct\$5) or (second adj3 metal))) not (("3615929" "3664896" "3777364" "3914137" "3928095" "3990099" "4414737" "4530149" "4589193" "4619887" "4666556" "4742014" "4922319" "5022742" "5070383" "5163178" "5236851" "5268316" "5272097" "5355301" "5366908" "5597341" "541907" "5588224" "5510287" "559741" "5616946" "5683939" "5714768" "5739563" "5780343" "5856214" "5998244" "6057195" "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" "5141892" "5326722" "5444302" "5759905" "5976961" "6067680".PN.) not (("5141892" "5192708" "5244835" "5371039" "5759905" "5976961" "6067680".PN.) not (("5141892" "5192708" "5491104" "5567644" "5759905" "5976961").PN.) ((438/629 and (LDD or lightly\$doped)) not ((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and "solid state") not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not ((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not (("(SDD or "lightly doped") same contact) and (solid stat | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2004/08/09 02:51 |
| | | "4619887" "4666556" "4742014" "4922319" "5022742" "5070383" "5163178" "5236851" "5268316" "5272097" "5355301" "5366908" "5407851" "5441907" "5508224" "5510287" "5529943" "5550075" "5567644" "5589418" "5597741" "5616946" "5683939" "5714768" "5739563" "5780343" "5856214" "5998244" | | |
| 347 | 2 : | "6057195" "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" "5141892" "5326722" "5444302" "5759905" "5976961" "6067680").PN.) not (("5141892" "5192708" "5244835" "5371039" "5420074" "5439838" "5491104" "5567644" "5759905" "5976961").PN.)) and (dopant or ions) 6187659.URPN. | USPAT | 2004/08/09 02:45 |
| 348 | 6 | ("5599736" "5795827" "5854102" "5893734" "5930675" "6030894").PN. | USPAT | 2004/08/09 02:46 |

| 349 | 3310 | 120/627 | USPAT; | 2004/08/09 03:29 |
|-----|------|---|-----------|------------------|
| 349 | 3310 | 438/637 | US-PGPUB; | 2004/06/09 03:29 |
| 1 | | | EPO; | |
| l | | | DERWENT; | |
| 1 | | | IBM TDB | |
| 350 | 193 | 438/637 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:31 |
| 330 | 1/3 | 1-150/057 and (EDD of lightly buoped) | US-PGPUB; | 200 400,07 03.31 |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |
| 351 | 124 | (438/637 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:29 |
| | | ions) | US-PGPUB; | 200 400,00 |
| | | | EPO; | |
| | 1 | | DERWENT; | |
| | | | IBM TDB | |
| 352 | 120 | ((438/637 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:32 |
| 332 | 120 | ions)) and (plug or contact) | US-PGPUB; | 2004,00,00,00.02 |
| | | l long of contact, | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 353 | 100 | (((438/637 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:30 |
| | | ions)) and (plug or contact)) not (("5599736" | US-PGPUB; | |
| | | "5795827" "5854102" "5893734" "5930675" | EPO; | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | DERWENT; | |
| : | | (LDD or lightly\$doped)) not (438/607 and (LDD or | IBM TDB | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | 10.11_100 | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | , |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | 1 | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | } | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | · |
| | 1 | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| |] | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| |] | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302 [°] "5759905" "5976961" | | |
| | 1 | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| 1 | 1 | "5491104" "5567644" "5759905" "5976961").PN.) | | |
| 354 | 0 | 6635966.URPN. | USPAT | 2004/08/09 03:20 |
| 355 | 15 | ("5573963" "5656861" "5710073" "5909618" | USPAT | 2004/08/09 03:20 |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | 1 | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN. | | |
| 356 | 427 | 438/642 | USPAT; | 2004/08/09 03:31 |
| | 1 | | US-PGPUB; | |
| | 1 | | EPO; | |
| | 1 | | DERWENT; | |
| |] | | IBM TDB | |
| | | I | 1 | |

| 357 | 28 | 438/642 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:34 |
|-----|-----|--|-------------------|-------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| 358 | 14 | (429/642 and (LDD or lightly Edonad)) and (depart or | IBM_TDB USPAT; | 2004/08/09 03:34 |
| 336 | 14 | (438/642 and (LDD or lightly\$doped)) and (dopant or | US-PGPUB; | 2004/06/09 03:34 |
| | | ions) | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 360 | 13 | ((438/642 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:35 |
| 300 | | ions)) and (plug or contact) | US-PGPUB; | 200 400,07 03.33 |
| | | iono)) and (plag or contact) | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 362 | 9 | (((438/642 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:32 |
| | | ions)) and (plug or contact)) not (("5573963" | US-PGPUB; | 200 4 00,00 00.02 |
| | • | "5656861" "5710073" "5909618" "5990021" | EPO; | |
| | | "6010933" "6066528" "6074960" "6140684" | DERWENT; | |
| | | "6156634" "6159844" "6207543" "6207575" | IBM_TDB | |
| | | "6274424" "6287951").PN.) not (((438/637 and (LDD | _ | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5599736" "5795827" "5854102" | | |
| | | "5893734" "5930675" "6030894").PN.) not | | |
| | | 6187659.URPN. not (438/629 and (LDD or | İ | |
| | | lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | ĺ | metal))) and dry adj etch\$4) and "second conductive") | | |
| İ | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" "5070383" "5163178" "5326851" "5369316" | | |
| | | "5070383" "5163178" "5236851" "5268316" "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| - | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| 1 | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| |] | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.) | | |
| 363 | 432 | 438/647 | USPAT; | 2004/08/09 03:34 |
| | | | US-PGPUB; | |
| | | | EPO; | |
|] . | | | DERWENT; | |
| | | | IBM TDB | |

| 364 | 70 | 438/647 and (LDD or lightly\$doped) | USPAT; US-PGPUB; | 2004/08/09 03:31 |
|------|--|---|---------------------|-------------------------------|
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 365 | 58 | (438/647 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:31 |
| | | ions) | US-PGPUB; | |
| | - | | EPO; | |
| | | | DERWENT; | |
| 0.44 | 50 | (400/47 1/100 1:11 41 1) | IBM_TDB | 0004/00/00 00 00 |
| 366 | 52 | ((438/647 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:32 |
| | | ions)) and (plug or contact) | US-PGPUB; EPO; | |
| | | | DERWENT; | |
| | - | | | |
| 367 | 43 | (((438/647 and (LDD or lightly\$doped)) and (dopant or | IBM_TDB USPAT; | 2004/08/09 03:35 |
| 307 | 45 | ions)) and (plug or contact)) not (((438/642 and (LDD) | US-PGPUB; | 2004/00/09 03:33 |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (("5573963" "5656861" "5710073" | DERWENT; | |
| | | "5909618" "5990021" "6010933" "6066528" | IBM TDB | |
| | | "6074960" "6140684" "6156634" "6159844" | 12 | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | 1 | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| İ | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| 1 | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| į | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | · |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | : |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" "5491104" "5567644" "5759905" "5976961").PN.) | | |
| 368 | 1280 | "5491104" "5567644" "5759905" "5976961").PN.) 438/648 | USPAT; | 2004/08/09 03:39 |
| 300 | 1200 | 130/010 | US-PGPUB; | 200 4 /00/07 03:39 |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |
| | ــــــــــــــــــــــــــــــــــــــ | | 1 | L |

| | | | T | |
|-----|-----|---|-----------|------------------|
| 369 | 73 | 438/648 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:39 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| į | | | DERWENT; | |
| 070 | 4.5 | (400/640 1/4707 1/14/01 1)) 1/4 | IBM_TDB | 0004/00/00 00 00 |
| 370 | 46 | (438/648 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:39 |
| 1 | | ions) | US-PGPUB; | |
| İ | | | EPO; | |
| | | | DERWENT; | |
| | | // | IBM_TDB | |
| 371 | 42 | ((438/648 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:39 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 372 | 24 | (((438/648 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:39 |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | US-PGPUB; | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| 1 | | (("5573963" "5656861" "5710073" "5909618" | _ | |
| | | "5990021" "6010933" "6066528" "6074960" | | İ |
| | | "6140684" "6156634" "6159844" "6207543" | 1 | |
| | | "6207575" "6274424" "6287951").PN.) not | 1 | |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | : |
| 1 | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | ĺ | "5070383" "5163178" "5236851" "5268316" | | - |
| | · | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| , | | "5244835" "5371039" "5420074" "5439838" | | |
| 272 | 909 | "5491104" "5567644" "5759905" "5976961").PN.) | LICDATE | 0004/00/00 00 15 |
| 373 | 292 | 438/650 | USPAT; | 2004/08/09 03:40 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 0.74 | 1 .01 | 100/450 1/100 1:1-1-01 1) | LICDATE | 0004/00/00 00 40 |
|------|-------|---|-----------|------------------|
| 374 | 12 | 438/650 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:40 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | 1 |
| | | | IBM_TDB | |
| 375 | 8 | (438/650 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:40 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | : |
| | | | IBM_TDB | |
| 376 | 6 | ((438/650 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:40 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 377 | 4 | (((438/650 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:41 |
| | | ions)) and (plug or contact)) not (((438/648 and (LDD | US-PGPUB; | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/647 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/642 and (LDD or lightly\$doped)) and (dopant or | _ | |
| | | ions)) and (plug or contact)) not (("5573963" | | |
| | | "5656861" "5710073" "5909618" "5990021" | | |
| | | "6010933" "6066528" "6074960" "6140684" | | , |
| | | "6156634" "6159844" "6207543" "6207575" | | |
| | ļ. | "6274424" "6287951").PN.) not (((438/637 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5599736" "5795827" "5854102" | | |
| | | "5893734" "5930675" "6030894").PN.) not | | |
| | , | 6187659.URPN. not (438/629 and (LDD or | | |
| | | lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| | | "4414737" "4530149" "4589193" "4619887" "4666556" "4743014" "4022210" "5022742" | | |
| | | "4666556" "4742014" "4922319" "5022742" "5070393" "5163179" "5326951" "5269316" | ! | |
| | | "5070383" "5163178" "5236851" "5268316" "5272007" "5255201" "5266000" "5407051" | 1 | |
| | | "5272097" "5355301" "5366908" "5407851" "5441007" "5500324" "5510227" "5520042" | | |
| | | "5441907" "5508224" "5510287" "5529943" "5550075" 1"5567644" "5500410" "5507741" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" "5790343" "5956314" "5009344" "6057105" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| L | | "5491104" "5567644" "5759905" "5976961").PN.) | | |

| 378 | 840 | 438/652 | USPAT; | 2004/08/09 03:48 |
|-----|-----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 379 | 63 | 438/652 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:48 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 380 | 41 | (438/652 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:48 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 381 | 32 | ((438/652 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:49 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 382 | 20 | (((438/652 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:49 |
|-----|------|---|-----------|------------------|
| | | ions)) and (plug or contact)) not (((438/650 and (LDD | US-PGPUB; | |
| | İ | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/648 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| İ | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD | | |
| 1 | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5573963" "5656861" "5710073" | | |
| | | "5909618" "5990021" "6010933" "6066528" | | |
| | | "6074960" "6140684" "6156634" "6159844" | | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.) | | |
| 383 | 1466 | 438/656 | USPAT; | 2004/08/09 03:50 |
| Ī | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 384 | 20 | ((((438/652 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:53 |
|-----|----|---|-----------|------------------|
| | 20 | ions)) and (plug or contact)) not (((438/650 and (LDD | US-PGPUB; | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/648 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | 15141_155 | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5573963" "5656861" "5710073" | | |
| | | "5909618" "5990021" "6010933" "6066528" | | |
| | | "6074960" "6140684" "6156634" "6159844" | | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| ĺ | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped) | | |

| 385 | 20 | (((((438/652 and (LDD or lightly\$doped)) and (dopant | USPAT; | 2004/08/09 03:50 |
|-----|----|---|-----------|------------------|
| 1 | | or ions)) and (plug or contact)) not (((438/650 and | US-PGPUB; | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | EPO; | |
| | | or contact)) not (((438/648 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | _ | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5573963" "5656861" "5710073" | | |
| | | "5909618" "5990021" "6010933" "6066528" | | |
| | | "6074960" "6140684" "6156634" "6159844" | | |
| ļ | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| 1 | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions) | | · |

| 007 | 00 | 1///// 1/10 1/10 1/10 1/10 1/10 1/10 1/ | T ICD AT | 0004/00/00 00 51 |
|-----|----|---|-----------|------------------|
| 387 | 20 | ((((((438/652 and (LDD or lightly\$doped)) and (dopant | USPAT; | 2004/08/09 03:51 |
| | | or ions)) and (plug or contact)) not (((438/650 and | US-PGPUB; | |
| 1 | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | EPO; | |
| | | or contact)) not (((438/648 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not (((438/647 and (LDD or lightly\$doped)) and (dopant or | IBM_TDB | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD) | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5573963" "5656861" "5710073" | | |
| | | "5909618" "5990021" "6010933" "6066528" | | |
| | | "6074960" "6140684" "6156634" "6159844" | | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" "5441907" "5508224" "5510287" "5529943" | | |
| | | 3441907 3508224 3510267 3529943 "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | 1 | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | 1 | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039 [°] " "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | - | and (LDD or lightly\$doped)) and (dopant or ions)) and | u. · | |
| | | (plug or contact) | | |

| | | 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.1.4.1. 1) 1.1.4.1. 1] 1.1.4.1.1. 1] 1.1.4.1.1. 1] 1.1.4.1.1. 1] 1.1.4.1.1. 1] 1.1.4.1.1. 1] 1.1.4.1.1. 1] 1.1.4.1.1. 1] 1.1.1.1.1.1. 1] 1.1. | LICDAT | 2004/00/00 00 51 |
|--------------|--------------|--|-----------|------------------|
| 388 | 0 | ((((((((438/652 and (LDD or lightly\$doped)) and (dopant | USPAT; | 2004/08/09 03:51 |
| | | or ions)) and (plug or contact)) not (((438/650 and | US-PGPUB; | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | EPO; | |
| | | or contact)) not (((438/648 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| Ì | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | | |
| , | | ions)) and (plug or contact)) not (((438/642 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5573963" "5656861" "5710073" | | |
| İ | | "5909618" "5990021" "6010933" "6066528" | | |
| • | | "6074960" "6140684" "6156634" "6159844" | | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| 1 | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | 3777364 3914137 3926093 3996099 "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| 1 | • | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| 1 | | (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| Į | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| 1 | | and (dopant or ions)) and (plug or contact)) not | 1 | |
| 1 | | (("5573963" "5656861" "5710073" "5909618" "5000021" "6010023" "6066520" "6074060" | 1 | |
| 1 | | "5990021" "6010933" "6066528" "6074960" "6140684" "6156634" "6159844" "6207543" | | |
| 1 | | "6140684" "6156634" "6159844" "6207543" "6207575" "6274424" "6287951") PN) pot | 1 | |
| 1 | | "6207575" "6274424" "6287951").PN.) not | | |
| 1 | | (((438/637 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | 1018)) and (ping of contact)) not ((3399736 "5795827" "5854102" "5893734" "5930675" | | |
| | | 3793627 3634102 3693734 3930673 "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| C 1 17 | 0.000 | (LDD or 15:03 AV lightly\$doped)) not (438/607 and (LDD or 15:03 AV lightly\$doped)) | | |
| Search Histo | ry 8/9/04 4: | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| C:\APPS\EAS | 1 \Workspace | lightly doped) not (((((LDD or "lightly doped") same (s)653.wsp contact") and ((dopant or doped) same (conductive or | | |
| l | l | , , , , , , , , , , , , , , , , , , , | 1 | |

| 389 | 489 | 438/657 | USPAT; | 2004/08/09 03:53 |
|-----|-----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | · | DERWENT; | |
| | | · | IBM_TDB | |
| 390 | 70 | 438/657 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:50 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | · | DERWENT; | |
| | | | IBM_TDB | |
| 391 | 49 | (438/657 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:53 |
| ļ | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 392 | 40 | ((438/657 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:53 |
| İ | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 393 | 21 | (((438/657 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:54 |
|---------------|-------------|---|-----------|------------------|
| 3/3 | 21 | ions)) and (plug or contact)) not ((((((438/652 and | US-PGPUB; | 200 400,00 03.34 |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | EPO; | |
| | | or contact)) not (((438/650 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | _ | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" "6207575" "6274424" "6287951").PN.) not | | |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | 49 | i |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| | | (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not | | |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| Search Histor | ry 8/9/04 4 | | | |
| C:\APPS\EAS | 1\Workspac | ["6030894").PN.) not 6187659.URPN. not (438/629 and es/633 wsp (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | 1 , , , , , , , , , , , , , , , , , , , | l | |

| 394 | 446 | 438/659 | USPAT; | 2004/08/09 03:58 |
|-----|-----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 395 | 75 | 438/659 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 03:58 |
| | | | US-PGPUB; | |
| | | _ | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 396 | 64 | (438/659 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:58 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 397 | 59 | ((438/659 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 03:58 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | L | | IBM_TDB | |

| 398 | 26 | (//429/650 and (LDD) or lightly (danged)) and (danget or | USPAT; | 2004/08/09 03:58 |
|--------------|-------------|--|---------------------|------------------|
| 398 | 36 | (((438/659 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/657 and (LDD | USPAT; US-PGPUB; | 2004/08/09 03:38 |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((((((438/652 and (LDD or | DERWENT; | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | IBM_TDB | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | IBIVI_IBB | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD)) | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | ("5573963" "5656861" "5710073" "5909618" | | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not | | |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | - | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | 1 | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | • | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | 1 | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" "5990021" "6010933" "6066528" "6074960" | | |
| | | "5990021" "6010933" "6066528" "6074960" | 1 | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not | | |
| Search Histo | ry 8/9/04 4 | 15(6438/637 sud (LDD or lightly\$doped)) and (dopant or | | |
| C:\APPS\EA\$ | T\Workspace | ions) and (plug or contact)) not (("5599736" "5795827" "5854102" "5893734" "5930675" | | |
| | • | 3793827" "3834102" "3893734" "5930675" | | |
| , | | • | • | • |

| 399 | 1173 | 438/675 | USPAT; | 2004/08/09 04:00 |
|-----|------|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 400 | 65 | 438/675 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:00 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 401 | 40 | (438/675 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:00 |
| | | ions) | US-PGPUB; | } |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 402 | 40 | ((438/675 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:00 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| 1 | | | IBM_TDB | |

| 403 | 15 | (((438/675 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/659 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or | USPAT; US-PGPUB; EPO; | 2004/08/09 04:00 |
|---------------|----------|--|-----------------------------|------------------|
| | | | | |
| | | i or regitting who pour, and tho particular to the particular that the property of | | |
| | | contact)) not (((438/657 and (LDD or lightly\$doped)) | DERWENT; | |
| l l | | and (dopant or ions)) and (plug or contact)) not | IBM TDB | |
| | | ((((((((438/652 and (LDD or lightly\$doped)) and (dopant | 15155 | |
| | | or ions)) and (plug or contact)) not (((438/650 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | or contact)) not (((438/648 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| l | | contact)) not (("5573963" "5656861" "5710073" | | |
| ļ | | "5909618" "5990021" "6010933" "6066528" | | |
| | | "6074960" "6140684" "6156634" "6159844" | | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| İ | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| ļ | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | (dopart of fore)) and (plug of contact)) not ((3399736 "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | 1 | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| , | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302 [°] "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| ļ | | (plug or contact)) not (((438/652 and (LDD or | | |
| İ | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| ĺ | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| I | | | ļ <u>.</u> | |
| anroh Wiston | Q/Q/Q4 4 | 11 55 4 6 4 6 4 10 05 19 19 2 2 1 0 5 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| earch History | 8/9/04 4 | 15:037575" page 75:0424" "6287951").PN.) not ((438/637 and (LDD or lightly\$doped)) and (dopant or s(053, wsp ions)) and (plug or contact)) not (("5599736" | | |

| 404 | 1047 | 438/685 | USPAT; | 2004/08/09 04:02 |
|-----|------|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 405 | 47 | 438/685 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:02 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 406 | 34 | (438/685 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:02 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 407 | 29 | ((438/685 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:02 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 408 | 11 | (((438/685 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:02 |
|--------------|-----------|--|-------------|----------------------|
| 100 | ** | ions)) and (plug or contact)) not (((438/675 and (LDD | US-PGPUB; | 200 4 00, 0 9 0 1102 |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/659 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/657 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not ((((((438/652 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | or contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| : | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not (((438/637 and (LDD or lightly\$doped)) and (dopant or | : | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| 1 | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | } |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | - | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| | | (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | | |
| arch History | 8/9/04 4 | "5990021" | | |
| APPS\EAST\ | Worksnace | 15:05 AW "6140684" "6156634" "6159844" "6207543" \$\6207575" "6274424" "6287951").PN.) not | | |
| | | "6207575" "6274424" "6287951").PN.) not | | |

| 409 | 318 | 438/684 | USPAT; | 2004/08/09 04:04 |
|-----|-----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 410 | 35 | 438/684 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:05 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | 1 | | DERWENT; | |
| 1 | , | | IBM_TDB | |
| 411 | 29 | (438/684 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:04 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 412 | 26 | ((438/684 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:04 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 412 | 12 | (//A20/C04 and (LDD) on lightly (donod)) and (donom) on | USPAT; | 2004/08/09 04:04 |
|-------------|-------------|--|-----------|------------------|
| 413 | 13 | (((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/685 and (LDD | US-PGPUB; | 2004/06/09 04:04 |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/675 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/659 and (LDD or lightly\$doped)) and (dopant or | _ | |
| | | ions)) and (plug or contact)) not (((438/657 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((((((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | , |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | ļ | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" "5000021" "6010023" "6066520" "6074060" | | |
| | | "5990021" "6010933" "6066528" "6074960" "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not | | |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | ŀ | |
| | | "4666556" "4742014" "4922319" "5022742" "5070383" "5163178" "5236851" "5268316" | • | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| | | (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| earch Histo | ry 8/9/04 4 | 15:05/4[Marips & 98] and (plug of contact)) not | | |
| ::\APPS\EAS | ∏Workspac | ((°5573963" °55656861" °5710073" "5909618" °5990021" "6010933" "6066528" "6074960" | | |
| | | | 1 | |
| | | | | |

| 414 | 465 | 438/686 | USPAT; | 2004/08/09 04:04 |
|-----|-----|--|-----------|------------------|
| | | | US-PGPUB; | |
| 1 | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 415 | 15 | 438/686 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:06 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 416 | 29 | ((438/684 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:05 |
| | 1 | ions)) and (dopant or ions) | US-PGPUB; | |
| | | - | EPO; | |
| | | | DERWENT; | |
| Ī | | | IBM_TDB | |
| 417 | 26 | (((438/684 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:05 |
| | | ions)) and (plug or contact)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

| 410 | | ((((420)(04 1 (IDD linksh-Edomod)) 1 (1 1 | LICDAT | 2004/00/00 04:05 |
|----------------|-------------|--|---------------------|------------------|
| 418 | 0 | ((((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) and (plug or contact)) not | USPAT; US-PGPUB; | 2004/08/09 04:05 |
| | | (((438/684 and (LDD or lightly\$doped)) and (dopant or | EPO; | |
| | | ions)) and (plug or contact)) not (((438/685 and (LDD) | DERWENT; | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | IBM TDB | |
| | | contact)) not (((438/675 and (LDD or lightly\$doped)) | IDIVI_IDB | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/659 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/657 and (LDD) | | |
| | | | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((((((438/652 and (LDD or | | |
| | | | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | İ | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" "5900021" "6010022" "6066529" "6074060" | | |
| | | "5990021" "6010933" "6066528" "6074960" "6140684" "6156624" "6150844" "6207543" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not | | <u> </u> |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" |] | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | <u> </u> | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302 ["] "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| | i | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| | | (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD) | | |
| Search Histo | ry 8/9/04 4 | ardiehtly\$dened\) and (donant or ions)) and (plue or | - | |
| C:\APPS\FAS | T\Worksnac | ((438/642 and (LDD or lightly\$doped)) | | |
| , , , <u>,</u> | - (oznapac | and (dopant or ions)) and (plug or contact)) not | | 1 |
| | I | I | I | I |

| 419 | 1925 | 438/687 | USPAT; | 2004/08/09 04:06 |
|-----|------|---|-----------|------------------|
| | , | | US-PGPUB; | |
| | | | EPO; | |
| 1 | | | DERWENT; | |
| | | | IBM_TDB | |
| 420 | 34 | 438/687 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:05 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 421 | 17 | (438/687 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:06 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | · | DERWENT; | |
| | | | IBM_TDB | |
| 422 | 15 | ((438/687 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:06 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

423 (((438/687 and (LDD or lightly\$doped)) and (dopant or USPAT: 2004/08/09 04:06 US-PGPUB; ions)) and (plug or contact)) not ((((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or EPO: DERWENT; contact)) and (plug or contact)) not (((438/684 and IBM TDB (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/685 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/675 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/659 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/657 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((((((438/652 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/650 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/648 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/647 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/642 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5573963" | "5656861" | "5710073" | "5909618" | "5990021" | "6010933" | "6066528" | "6074960" | "6140684" | "6156634" | "6159844" | "6207543" | "6207575" | "6274424" | "6287951").PN.) not (((438/637 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5599736" | "5795827" | "5854102" | "5893734" | "5930675" | "6030894").PN.) not 6187659.URPN. not (438/629 and (LDD or lightly\$doped)) not (438/607 and (LDD or lightly\$doped)) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and "solid state") not ((((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and plug) and ((second adj3 conduct\$5) or (second adj3 metal))) not (("3615929" | "3664896" | "3777364" | "3914137" | "3928095" | "3990099" "4414737" | "4530149" | "4589193" | "4619887" | "4666556" | "4742014" | "4922319" | "5022742" "5070383" | "5163178" | "5236851" | "5268316" "5272097" | "5355301" | "5366908" | "5407851" | "5441907" | "5508224" | "5510287" | "5529943" | "5550075" | "5567644" | "5589418" | "5597741" "5616946" | "5683939" | "5714768" | "5739563" | "5780343" | "5856214" | "5998244" | "6057195" | "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" | "5141892" | "5326722" | "5444302" | "5759905" | "5976961" | "6067680").PN.) not (("5141892" | "5192708" | "5244835" | "5371039" | "5420074" | "5439838" | "5491104" | "5567644" | "5759905" | "5976961").PN.)) and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/652 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/650 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/648 and (LDD or lightly\$doped)) and (dopant or Tions) And (plug ancontact)) not (((438/647 and (LDD) 8/9/04 4 Search History C:\APPS\EAST\Workspaces\653.wsp contact)) not (((438/642 and (LDD or lightly\$doped))

| 424 | 975 | 438/688 | USPAT; | 2004/08/09 04:07 |
|-----|-----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 425 | 41 | 438/688 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:07 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 426 | 27 | (438/688 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:07 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 427 | 25 | ((438/688 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:07 |
| | 1 | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

USPAT; 2004/08/09 04:08 428 (((438/688 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/687 and (LDD US-PGPUB; or lightly\$doped)) and (dopant or ions)) and (plug or EPO; contact)) not ((((438/684 and (LDD or lightly\$doped)) DERWENT; and (dopant or ions)) and (plug or contact)) and (plug or IBM TDB contact)) not (((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/685 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/675 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/659 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/657 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not ((((((438/652 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/650 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/648 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/647 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/642 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5573963" | "5656861" | "5710073" | "5909618" | "5990021" | "6010933" | "6066528" | "6074960" | "6140684" | "6156634" | "6159844" | "6207543" | "6207575" | "6274424" | "6287951").PN.) not (((438/637 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5599736" | "5795827" | "5854102" | "5893734" | "5930675" | "6030894").PN.) not 6187659.URPN. not (438/629 and (LDD or lightly\$doped)) not (438/607 and (LDD or lightly\$doped)) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and "solid state") not ((((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and plug) and ((second adj3 conduct\$5) or (second adj3 metal))) not (("3615929" | "3664896" | "3777364" | "3914137" | "3928095" | "3990099" | "4414737" | "4530149" | "4589193" | "4619887" "4666556" | "4742014" | "4922319" | "5022742" "5070383" | "5163178" | "5236851" | "5268316" "5272097" | "5355301" | "5366908" | "5407851" "5441907" | "5508224" | "5510287" | "5529943" "5550075" | "5567644" | "5589418" | "5597741" "5616946" | "5683939" | "5714768" | "5739563" | "5780343" | "5856214" | "5998244" | "6057195" | "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" | "5141892" | "5326722" | "5444302" | "5759905" | "5976961" | "6067680").PN.) not (("5141892" | "5192708" | "5244835" | "5371039" | "5420074" | "5439838" | "5491104" | "5567644" | "5759905" | "5976961").PN.)) and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/652 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/650 and (LDD or lightly\$doped)) Search History 8/9/04 4 13:05 (dopant of 1035)) and (plug or contact)) not C:\APPS\EAST\Workspaces\053\wsp_1/2\ ions)) and (plug or contact)) not (((438/647 and (LDD)

| 429 | 46 | 438/922 | USPAT; | 2004/08/09 04:08 |
|-----|----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 430 | 3 | 438/922 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:08 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 431 | 3 | (438/922 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:08 |
| | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 432 | 2 | ((438/922 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:08 |
| | | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | 1 | | IBM_TDB | |

| 33 | 2 | (((438/922 and (LDD or lightly\$doped)) and (dopant or | USPAT; US-PGPUB; | 2004/08/09 04:08 |
|-------------|-------------|--|---------------------|------------------|
| | | ions)) and (plug or contact)) not (((438/688 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/687 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | ((((438/684 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) and (plug or contact)) not | | |
| | | (((438/684 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/685 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/675 and (LDD or lightly\$doped)) | | |
| ł | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/659 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/657 and (LDD | | |
| | | | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((((((438/652 and (LDD or | | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | | |
| i | | contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not | | |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | |
| | | | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| - | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | 15070383" 15163178" 15236851" 15268316" | | |
| | | | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039 [°] " "5420074" "5439838" | | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| | | (plug or contact)) not (((438/652 and (LDD or | | |
| | | lightlysdopell) and (dopant or ions)) and (plug or | | |
| arch Histor | y 8/9/04 4: | contact)) not (((438/650 and (LDD or lightly\$doped)) solo33 with the contact) and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not | | |
| ! | | | | |

| 434 | 144 | 438/923 | USPAT; | 2004/08/09 04:08 |
|-----|-----|---|-----------|------------------|
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| 1 | | | IBM_TDB | |
| 435 | 13 | 438/923 and (LDD or lightly\$doped) | USPAT; | 2004/08/09 04:08 |
| | | | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| + | | | IBM_TDB | ļ |
| 436 | 11 | (438/923 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:08 |
| - | | ions) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| 437 | 8 | ((438/923 and (LDD or lightly\$doped)) and (dopant or | USPAT; | 2004/08/09 04:08 |
| Í | ! | ions)) and (plug or contact) | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |

| 138 | 6 | (((438/923 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/922 and (LDD | USPAT; US-PGPUB; | 2004/08/09 04:10 |
|-------------|----------------------------|--|---------------------|------------------|
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | | DERWENT; | |
| | | contact)) not (((438/688 and (LDD or lightly\$doped)) | | |
| ĺ | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/687 and (LDD or lightly\$doped)) and (dopant or | | |
| ļ | | ions)) and (plug or contact)) not ((((438/684 and (LDD | ļ | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) and (plug or contact)) not (((438/684 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | or contact)) not (((438/685 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/675 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/659 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | 1 | |
| | | contact)) not (((438/657 and (LDD or lightly\$doped)) | • | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((((((438/652 and (LDD or lightly\$doped)) and (dopant | į | |
| | | or ions)) and (plug or contact)) not (((438/650 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | or contact)) not (((438/648 and (LDD or lightly\$doped)) | | |
| ŀ | | and (dopant or ions)) and (plug or contact)) not | | |
| ĺ | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | | |
| į | | | | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD | | 1 |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| ļ | | contact)) not (("5573963" "5656861" "5710073" | | |
| İ | | "5909618" "5990021" "6010933" "6066528" | | |
| i | | "6074960" "6140684" "6156634" "6159844" | , | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| ĺ | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | 1 |
| | • | (second adj3 metal))) not (("3615929" "3664896" | | |
| İ | | "3777364" "3914137" "3928095" "3990099" | 1 | |
| | | "4414737" "4530149" "4589193" "4619887" | 1 | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | | | |
| İ | | "5272097" "5355301" "5366908" "5407851" "5441007" "5508224" "5510287" "5520042" | | |
| | | "5441907" "5508224" "5510287" "5529943" "5550075" "5567644" "5590419" "5507741" | | |
| | | "5550075" "5567644" "5589418" "5597741" | 1 | |
| | | "5616946" "5683939" "5714768" "5739563" | 1 | |
| | | "5780343" "5856214" "5998244" "6057195" | 1 | |
| | | "6420725").PN.) not 6067680.URPN. not | 1 | |
| | | 6225214.URPN. not (("4829024" "5141892" | 1 | |
| | | "5326722" "5444302" "5759905" "5976961" | 1 | |
| | | "6067680").PN.) not (("5141892" "5192708" | 1 | |
| | | "5244835" "5371039" "5420074" "5439838" | 1 | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| | | and (LDD or lightly\$doped)) and (dopant or ions)) and | | |
| arch Histor | y 8/0/04 4 | 1900 Accordage 3 got (((438/652 and (LDD or | | - |
| ADDC/E VO | y 0/2/04/4: TNM/arkana= | lightly\$doped)) and (dopant or ions)) and (plug or \$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | | |
| ALL MEAN | LAVVOEKSDAC | es/cops.wsb * '' '' '' '' | 1 | 1 |

| 439 | 2 | 5981332.pn. | USPAT; | 2004/08/09 04:11 |
|-----|---|-------------|-----------|------------------|
| | | • | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

USPAT: 440 5981332.pn. not (((438/923 and (LDD or 2004/08/09 04:11 US-PGPUB; lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/922 and (LDD or lightly\$doped)) EPO; DERWENT; and (dopant or ions)) and (plug or contact)) not IBM TDB (((438/688 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/687 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not ((((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) and (plug or contact)) not (((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/685 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/675 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/659 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/657 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not ((((((438/652) and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/650 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/648 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/647 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/642 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5573963" | "5656861" | "5710073" | "5909618" | "5990021" | "6010933" | "6066528" | "6074960" | "6140684" | "6156634" | "6159844" | "6207543" | "6207575" | "6274424" | "6287951").PN.) not (((438/637 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5599736" | "5795827" | "5854102" | "5893734" | "5930675" | "6030894").PN.) not 6187659.URPN. not (438/629 and (LDD or lightly\$doped)) not (438/607 and (LDD or lightly\$doped)) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and "solid state") not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and plug) and ((second adj3 conduct\$5) or (second adj3 metal))) not (("3615929" | "3664896" | "3777364" | "3914137" | "3928095" | "3990099" | "4414737" | "4530149" | "4589193" | "4619887" "4666556" | "4742014" | "4922319" | "5022742" "5070383" | "5163178" | "5236851" | "5268316" "5272097" | "5355301" | "5366908" | "5407851" "5441907" | "5508224" | "5510287" | "5529943" | "5550075" | "5567644" | "5589418" | "5597741" "5616946" | "5683939" | "5714768" | "5739563" "5780343" | "5856214" | "5998244" | "6057195" | "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" | "5141892" | "5326722" | "5444302" | "5759905" | "5976961" | "6067680").PN.) not (("5141892" | "5192708" | "5244835" | "5371039" | "5420074" | "5439838" | "5491104" | "5567644" | "5759905" | "5976961").PN.)) 8/9/04 4 15:05 (AM) or lightly \$doped)) and (dopant or ions)) and Search History C:\APPS\EAST\Workspaces\(\text{0539}\) or contact)) not (((438/652 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or

| 441 | 2 | 6066894.pn. | USPAT; | 2004/08/09 04:11 |
|-----|---|-------------|-----------|------------------|
| | | • | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

442 6066894.pn. not 5981332.pn. not (((438/923 and (LDD **USPAT:** 2004/08/09 04:12 US-PGPUB; or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/922 and (LDD or lightly\$doped)) EPO; and (dopant or ions)) and (plug or contact)) not DERWENT; IBM_TDB (((438/688 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/687 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not ((((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) and (plug or contact)) not (((438/684 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/685 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/675 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/659 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/657 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not ((((((438/652) and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/650 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/648 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/647 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (((438/642 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5573963" | "5656861" | "5710073" | "5909618" | "5990021" | "6010933" | "6066528" | "6074960" | "6140684" | "6156634" | "6159844" | "6207543" | "6207575" | "6274424" | "6287951").PN.) not (((438/637 and (LDD or lightly\$doped)) and (dopant or ions)) and (plug or contact)) not (("5599736" | "5795827" | "5854102" | "5893734" | "5930675" | "6030894").PN.) not 6187659.URPN. not (438/629 and (LDD or lightly\$doped)) not (438/607 and (LDD or lightly\$doped)) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and "solid state") not ((((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and dry adj etch\$4) and "second conductive") and solid\$source) not (((((LDD or "lightly doped") same contact) and ((dopant or doped) same (conductive or metal))) and plug) and ((second adj3 conduct\$5) or (second adj3 metal))) not (("3615929" | "3664896" | "3777364" | "3914137" | "3928095" | "3990099" | "4414737" | "4530149" | "4589193" | "4619887" "4666556" | "4742014" | "4922319" | "5022742" "5070383" | "5163178" | "5236851" | "5268316" "5272097" | "5355301" | "5366908" | "5407851" | "5441907" | "5508224" | "5510287" | "5529943" | "5550075" | "5567644" | "5589418" | "5597741" "5616946" | "5683939" | "5714768" | "5739563" "5780343" | "5856214" | "5998244" | "6057195" | "6420725").PN.) not 6067680.URPN. not 6225214.URPN. not (("4829024" | "5141892" | "5326722" | "5444302" | "5759905" | "5976961" | "6067680").PN.) not (("5141892" | "5192708" | "5244835" | "5371039" | "5420074" | "5439838" | "5491104" | "5567644" | "5759905" | "5976961").PN.)) 8/9/04 4 13:105 (AND qs lightly\$doped)) and (dopant or ions)) and Search History C:\APPS\EAST\Workspaces\0.53\wsp lightly\$doped)) and (dopant or ions)) and (plug or

| 443 | 2 | 6130145.pn. | USPAT; | 2004/08/09 04:12 |
|-----|---|-------------|-----------|------------------|
| | | • | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

| 444 | 2 | 6130145.pn. not 6066894.pn. not 5981332.pn. not | USPAT; | 2004/08/09 04:12 |
|--------------|------------|--|-----------|------------------|
| | | (((438/923 and (LDD or lightly\$doped)) and (dopant or | US-PGPUB; | |
| | | ions)) and (plug or contact)) not (((438/922 and (LDD | EPO; | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | DERWENT; | |
| | | contact)) not (((438/688 and (LDD or lightly\$doped)) | IBM_TDB | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/687 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not ((((438/684 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) and (plug or contact)) not (((438/684 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | or contact)) not (((438/685 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/675 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/659 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/657 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((((((438/652 and (LDD or lightly\$doped)) and (dopant | | |
| | | or ions)) and (plug or contact)) not (((438/650 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | or contact)) not (((438/648 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/647 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/642 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (("5573963" "5656861" "5710073" | 1 | |
| | | "5909618" "5990021" "6010933" "6066528" | | |
| | | "6074960" "6140684" "6156634" "6159844" | | |
| | | "6207543" "6207575" "6274424" "6287951").PN.) | | |
| | | not (((438/637 and (LDD or lightly\$doped)) and | | |
| | | (dopant or ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not ((((((LDD or "lightly doped") same | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | | |
| : | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| - | | contact) and ((dopant or doped) same (conductive or | | - |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | |
| | | "5616946" "5683939" "5714768" "5739563" | | |
| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | 1 | |
| | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | 1 | |
| | | "5244835" "5371039" "5420074" "5439838" | 1 | |
| | | "5491104" "5567644" "5759905" "5976961").PN.)) | | |
| arch History | 8/9/04 4 | 13:05 (ADD or lightly \$doped)) and (dopant or ions)) and | | |
| APPS\EAST | \Workspace | (plug or contact)) not (((438/652 and (LDD or s)) swsp or contact)) and (dopant or ions)) and (plug or | 1 | |
| - , 7 • | | lightly\$doped)) and (dopant or ions)) and (plug or | | |

| 445 | 2 | 6177697.pn. | USPAT; | 2004/08/09 04:13 |
|-----|---|-------------|-----------|------------------|
| | | • | US-PGPUB; | |
| | | | EPO; | |
| | | | DERWENT; | |
| | | | IBM TDB | |

| 46 | 2 | 6177697.pn. not 6130145.pn. not 6066894.pn. not | USPAT; | 2004/08/09 04:12 |
|-----------|------------|---|--|------------------|
| | | 5981332.pn. not (((438/923 and (LDD or | US-PGPUB; | |
| | | lightly\$doped)) and (dopant or ions)) and (plug or | EPO; | |
| | | contact)) not (((438/922 and (LDD or lightly\$doped)) | DERWENT; | |
| | | and (dopant or ions)) and (plug or contact)) not | IBM_TDB | |
| | | (((438/688 and (LDD or lightly\$doped)) and (dopant or | _ | |
| | | ions)) and (plug or contact)) not (((438/687 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | - | contact)) not ((((438/684 and (LDD or lightly\$doped)) | | |
| | | | | |
| | | and (dopant or ions)) and (plug or contact)) and (plug or | | |
| } | | contact)) not (((438/684 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/685 and (LDD or lightly\$doped)) and (dopant or | | |
| 1 | | ions)) and (plug or contact)) not (((438/675 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/659 and (LDD or lightly\$doped)) | | |
| , | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/657 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not ((((((438/652 and | | |
| | | (LDD or lightly\$doped)) and (dopant or ions)) and (plug | | |
| | | | | |
| | | or contact)) not (((438/650 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (((438/648 and (LDD or lightly\$doped)) and (dopant or | | |
| | | ions)) and (plug or contact)) not (((438/647 and (LDD | | |
| | | or lightly\$doped)) and (dopant or ions)) and (plug or | | |
| | | contact)) not (((438/642 and (LDD or lightly\$doped)) | | |
| | | and (dopant or ions)) and (plug or contact)) not | | |
| | | (("5573963" "5656861" "5710073" "5909618" | - | |
| | | "5990021" "6010933" "6066528" "6074960" | | |
| | | "6140684" "6156634" "6159844" "6207543" | | |
| | | "6207575" "6274424" "6287951").PN.) not |] | ļ |
| | | (((438/637 and (LDD or lightly\$doped)) and (dopant or | | İ |
| | | | | |
| | | ions)) and (plug or contact)) not (("5599736" | | |
| | | "5795827" "5854102" "5893734" "5930675" | | |
| | | "6030894").PN.) not 6187659.URPN. not (438/629 and | | |
| | | (LDD or lightly\$doped)) not (438/607 and (LDD or | | |
| | | lightly\$doped)) not (((((LDD or "lightly doped") same | , | 1 |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and "solid state") not ((((((LDD or "lightly doped") same | ľ | |
| | | contact) and ((dopant or doped) same (conductive or | | ! |
| | | metal))) and dry adj etch\$4) and "second conductive") | | |
| | | and solid\$source) not (((((LDD or "lightly doped") same | | |
| | | | | |
| | | contact) and ((dopant or doped) same (conductive or | | |
| | | metal))) and plug) and ((second adj3 conduct\$5) or | | |
| | | (second adj3 metal))) not (("3615929" "3664896" | | |
| | | "3777364" "3914137" "3928095" "3990099" | | |
| | | "4414737" "4530149" "4589193" "4619887" | | |
| | | "4666556" "4742014" "4922319" "5022742" | | |
| | | "5070383" "5163178" "5236851" "5268316" | | |
| | | "5272097" "5355301" "5366908" "5407851" | | |
| | | "5441907" "5508224" "5510287" "5529943" | | |
| | | "5550075" "5567644" "5589418" "5597741" | | 1 |
| | | "5616946" "5683939" "5714768" "5739563" | | |
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| | | "5780343" "5856214" "5998244" "6057195" | | |
| | | "6420725").PN.) not 6067680.URPN. not | | |
| | | 6225214.URPN. not (("4829024" "5141892" | | |
| ŀ | | "5326722" "5444302" "5759905" "5976961" | | |
| | | "6067680").PN.) not (("5141892" "5192708" | | |
| | | "5244835" "5371039" "5420074" "5439838" | | |
| and III | 0/0/04 4 | "5491104" "5567644" "5759905" "5976961"):PN.)) | | |
| rch Histo | ry 8/9/044 | and (LDD) or lightly\$doped)) and (dopant or ions)) and (system) and (copant or ions)) and (plug or contact)) not (((438/652 and (LDD) or | | |
| DDC: - : | TTAXAT . | I STAPLED OF HATCHARDORUM SHU COORUM OF JOHAN SHU | 1 | |